

M/001/019

0004

RECLAMATION ESTIMATE

September 27, 1997
(revised 12-6-98)

Indian Queen Marble Project
SE $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 33, T26S, R13W
Beaver County, Utah

<u>Map Color</u>	<u>Acreage</u>	<u>Reclamation Treatment</u>	<u>Equipment</u>	<u>Hrs.</u>	<u>Cost</u>
1. (purple)	0.60	Reshape mine dump & Redistribute salvaged top soil.	Case 580 Backhoe	8	440.00
		Equipment mobilization		2	110.00
		Hand seeding & fertilizing; Two men + mileage.		4	95.00
		Approved seed mix 6.72 lbs.			85.34
		Diammonium Phosphate 50 lbs.			11.10
		Total Cost			\$741.44
2. (orange)	0.50	Reshaping highwall area utilizing existing onsite backfill material. Preparation for seeding; no topsoil salvaged.	Case 880 Trackhoe	10	950.00
		Equipment mobilization		2	150.00
		Hand seeding & fertilizing; Two men + Mileage.		4	95.00
		Approved seed mix 5.6 lbs.			71.17
		Diammonium Phosphate 50 lbs.			11.10
		Total Cost			\$1277.27
3. (green)	1.75	Four areas. Reseeding & fertilizing; Two men + Mileage. Approved seed mix 19.6 lb; fert = 175 lb.		4	95.00
		Total Cost			287.77
4. (blue 1997)	1.34	Recountouring slope & redistribution of topsoil	D-7 Cat.	8	600.00
		Equipment mobilization		2	150.00
		Hand seeding & Fert.;			
		Two men + mileage		8	175.00
		Approved seed mix 15.00 lbs.			190.59
		Diammonium Phosphate 150 lbs.			33.30
		Total Cost			\$1148.89
5. (blue 1998)	1.47	Reshape slopes & walls	Case 880 Trackhoe	8	760.00
		Recontour terraces & redistribute topsoil	D-7 Cat.	8	600.00
		Equipment mobilization		4	300.00
		Hand seeding & fert.;			
		Two men + mileage		10	215.00
		Seed Mix 16.46 lbs.			209.07
		Diammonium Phosphate 150			33.30
		Total Cost			\$2117.37

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<u>Map Color</u>	<u>Acreage</u>	<u>Reclamation Treatment</u>	<u>Equipment</u>	<u>Hrs.</u>	<u>Cost</u>
6. (Blue 1999)	1.01	Reshaping slopes & walls. Recontour terraces & redistribute topsoil. Equipment mobilization Hand seeding & fert.; Two men + mileage Seed mix 11.2 lbs Diammonium Phosphate 100 lbs.	Case 880 Trackhoe D-7 Cat.	8 6 4 8	760.00 450.00 300.00 175.00 142.23 22.20
			Total Cost		\$1849.43
7. (Blue 2000)	1.28	Reshaping slopes & walls. Recontour terraces & redistribute topsoil. Equipment mobilization Hand seeding & fert.; Two men + mileage Seed mix 14.34 lbs. Diammonium Phosphate 125 lbs.	Case 880 Trackhoe D-7 Cat	8 7 4 8	760.00 525.00 300.00 175.00 182.05 27.75
			Total Cost		\$1969.80
8. (Blue 2001)	1.28	Reshaping slopes & walls. Recontour terraces & redistribute topsoil. Equipment mobilization Hand seeding & fert.; Two men + mileage Seed mix 14.34 lbs. Diammonium Phosphate 125 lbs.	Case 880 Trackhoe D-7 Cat	8 7 4 8	760.00 525.00 300.00 175.00 182.05 27.75
			Total Cost		\$1969.80
9. (Red)	4.42	Slopes and low areas reshaped and roughened; Drainage restored, no topsoil salvaged. Equipment mobilization. Hand seeding & fert.; Two men + mileage Seed mix 49.5 lbs. Diammonium Phosphate 450 lbs	Case 880 Trackhoe	20 2 24	1900.00 150.00 525.00 628.66 99.90
			Total Cost		\$3303.56
10. (yellow)	0.78	Mine dumps reshaped & roughened, no topsoil salvaged. Equipment mobilization Hand seeding & fert.; Two men + mileage Seed Mix 8.4 lbs. Diammonium Phosphate 75 lbs.	Case 880 Trackhoe	8 2 8	760.00 150.00 175.00 106.67 16.65
			Total Cost		\$1208.32
11. N/A	N/A	Fencing two shafts; steel posts, chain-link fencing, Labor.			224.00

COST & MATERIALS BREAKDOWN

1. Case 580 Backhoe = \$55.00/hr
2. Case 880 Trackhoe = \$95.00/hr.
3. Caterpillar D-7 = \$75.00/hr.
4. Equipment mobilization = \$75.00/hr.
5. Labor for hand seeding = \$10.00/hr.
6. Mileage for labor; pickup truck = 30¢/mile
7. Approved Seed Mix (11 different species) @ 11.2 lbs/acre.
8. Approved seed mix cost per acre = \$142.23/acre.
9. Approved seed mix cost per pound = \$12.70/lb.
10. Approved seed mix composition:
 - a. High-crest crested wheat grass = 1/lb ac.
 - b. Intermediated Wheat grass = 2/lb ac.
 - c. Western wheat grass = 2/lb ac.
 - d. Indian Rice grass = 2.5/lb ac.
 - e. Yellow sweet clover = .5/lb ac.
 - f. Palmer Penstemon = .5/lb ac.
 - g. Scarlet globe mallow = .5/lb ac.
 - h. Wyoming big sage brush = .2/lb ac.
 - i. Shadscale = 1/lb ac.
 - j. Rubber Rabbit brush = .5/lb ac.
 - k. Forage kochia = .5/lb ac.
11. Diammonium Phosphate fertilizer = \$11.10/ 50 lb. bag.
12. Steel T-posts, 7' for fencing = \$3.99 each.
13. Chain-link fencing 5' high = \$1.75/ft.
14. Labor for fencing shafts = \$10.00/hr.
15. Mileage for labor to fence shafts; pickup truck = 30¢/mile.
16. Assumed mileage = 50 miles (roundtrip)
17. Assumed town of origin is Milford, Utah for workers.
18. Assumed town of origin is Milford, Cedar City, and/or Delta, Utah for equipment mobilization. An average of 2 hours was allowed for travel time for equipment mobilization.
19. Hand-seeding is intended to mean broadcasting seed by hand.

m/001/019

TOM MUNSON - TONY GALLEGOS
DIVISION OF OIL, GAS AND MINING
1594 WEST NORTH TEMPLE, SUITE 1210
BOX 145801
SALT LAKE CITY, UTAH 84114-5801

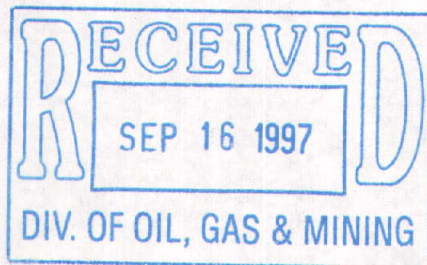
SEPTEMBER 8, 1997

RE: REVIEW OF NOTICE OF INTENTION TO COMMENCE LARGE MINING
OPERATIONS, INDIAN QUEEN MARBLE LLC COMPANY, INDIAN
QUEEN MARBLE MINE, M/001/019, BEAVER COUNTY, UTAH

GENTLEMEN:

THANK YOU FOR MEETING WITH US ON THE 12th OF AUGUST AT THE
MINE SITE. THIS WAS VERY HELPFUL, AND HAS GIVEN US A BETTER
PERSPECTIVE IN COMPILING DATA NECESSARY FOR THE PERMITTING.
THE ENCLOSED DATA IS IN CONJUNCTION WITH THE INITIAL PLAN OF
OCTOBER 16, 1996, AND THE SECOND SUBMITTAL OF MARCH 26, 1997.
ON AUGUST 18, 1997, BYRON MUIR SENT THE DRAWINGS TO YOU WHICH
WERE REQUESTED. I HAVE NOT BEEN TOLD THAT THEY WERE NOT APPROPRIATE,
THEREFORE I AM ENCLOSING THE REMAINING DATA. AS YOU KNOW WE ARE
ALWAYS AVAILABLE AND READY TO OBTAIN THE INFORMATION YOU REQUEST.

ONCE AGAIN, THANK YOU FOR YOUR CONTINUED EFFORTS, TECHNICAL
KNOWLEDGE, AND PATIENCE.



SINCERELY,

R. P. HORTON
INDIAN QUEEN MARBLE LLC
P.O. BOX 150271
EAST ELY, NEVADA 89315